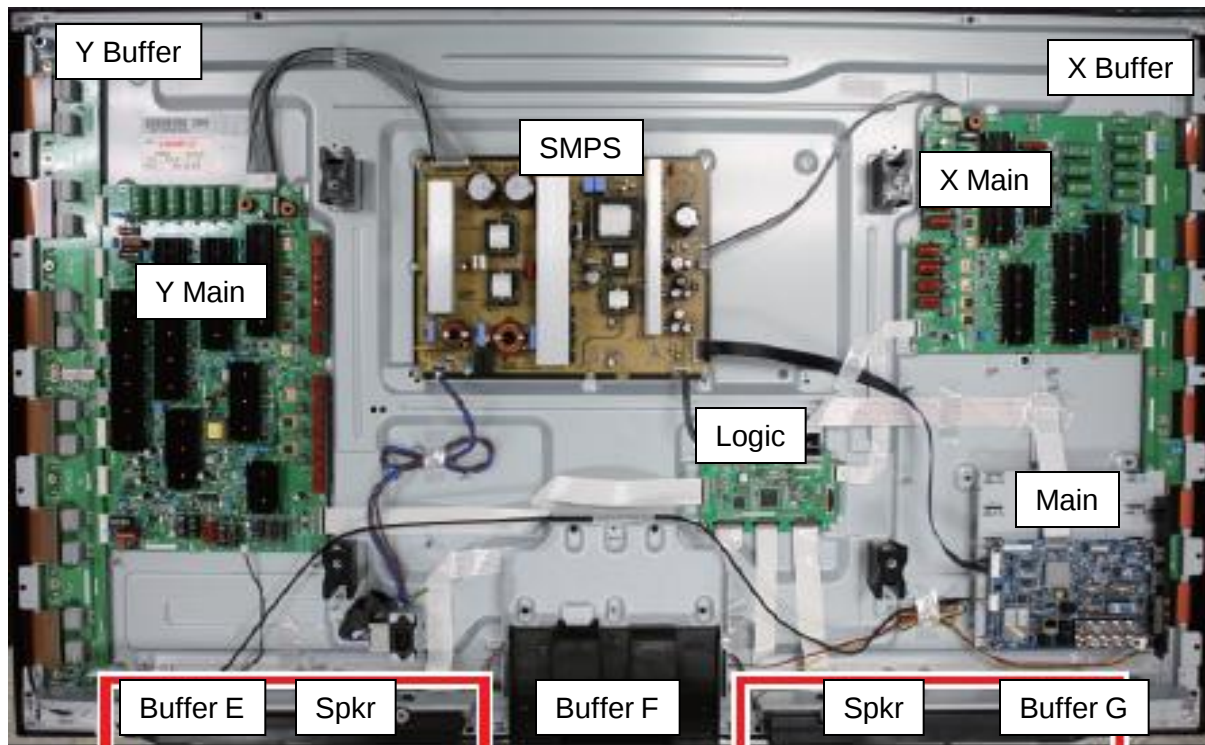




HELP : 1-888-751-4086 (Tech Support)
1-866-894-0637 (FE)

GSPN

<http://gspn3.samsungcsportal.com>

PLUS ONE

<http://my.plus1solutions.net/clientPortals/samsung>

HOT TIPS

-Power On Problems: (pg. 3)

-Video Problems: (pg. 4)

Latest Firmware:

Please check Samsung.com for latest update!

■ Firmware for SX1 Model

- Version : 1016.3

- Folder Name: T-TDT5AUSC

- Related Models:

PDP: C500, C530, C540, C550, C590

- Description:

This firmware will prevent below problems:

. Picture Noise on specific channels

. Distorted picture on 70Hz, 75 Hz

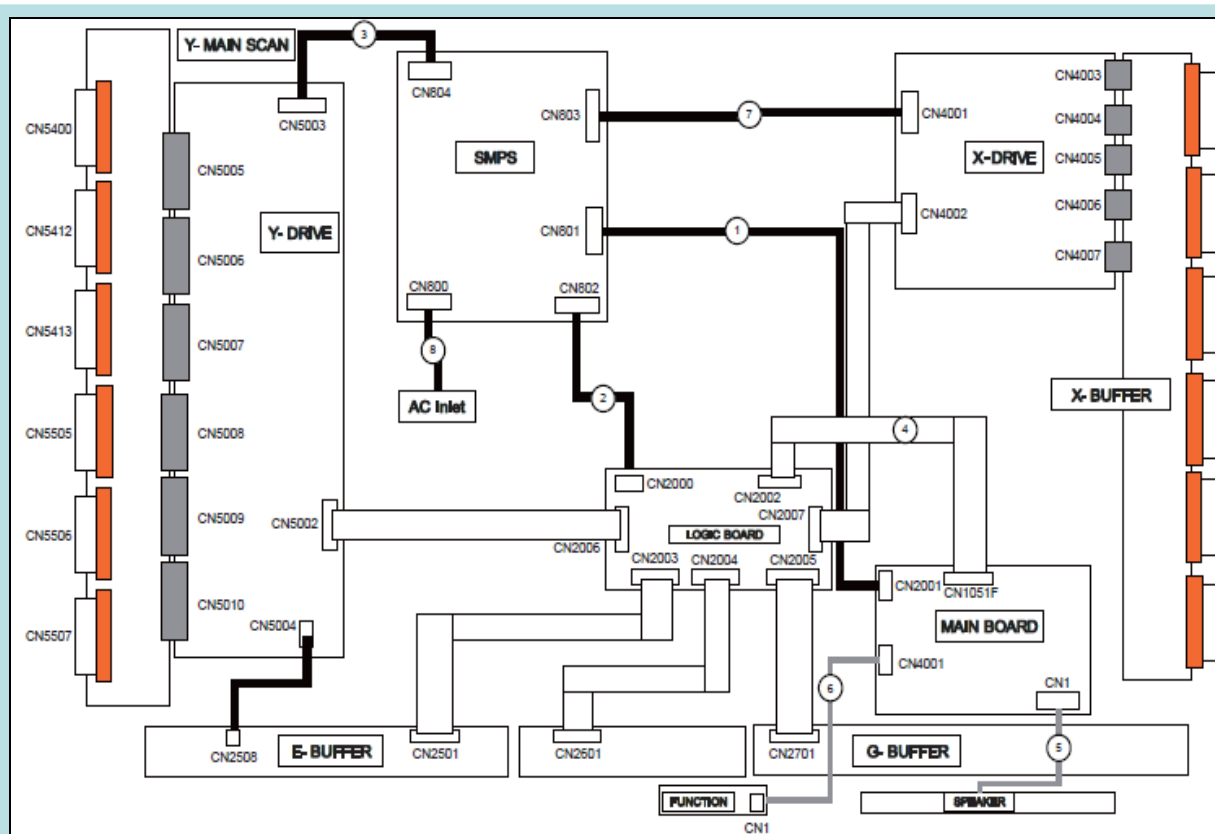
Service Bulletins:

Bulletin #: ASC20110621003

Description: 2010 PDP Option Byte Table.

Please check GSPN for parts update!

Part No	Parts Description	Location
BN40-00163A	TUNER;DTVS20CVL081A,NTSC,191CH,45.75MHZ,	TU902,CIS3
BN44-00332A	DC VSS-PDP TV;PZ-6,AC/DC,AC100~240V,50/6	P001A
BN59-00996A	REMOCON;TM1050,SAMSUNG,20PIN SINGLE,48KE	T0074
BN61-05596A	HOLDER-WIRE CABLE;LED TV,LDPE,TO.8,L150,	
BN61-06108A	GUIDE-STAND NECK;58PC550,PC,CLEAR,TR-302	GSN01
BN61-06109A	GUIDE-STAND;58PC550,PC,G/F 20%,V2,BK0007	T0920
BN63-01798B	CLOTH-CLEAN;CLOTH,180,200,SEA BLUE,TOC	M9889
BN63-06476A	COVER-BOTTOM;58PC550,HIPS,V0,V1,BLK(BK-5	T0531
BN96-12678A	ASSY PDP MODULE P;S63FH-YB05,PL63FF010A,	U001A
BN96-12689A	ASSY PDP P-X MAIN BOARD;S63-FH-YB05,PL63	UX03A
BN96-12690A	ASSY PDP P-X BUFFER UPPER BOARD;S63-FH-Y	UX02A
BN96-12691A	ASSY PDP P-X BUFFER LOWER BOARD;S63-FH-Y	UX01A
BN96-12692A	ASSY PDP P-Y MAIN BOARD;S63-FH-YB05,PL63	UY04A
BN96-12693A	ASSY PDP P-Y BUFFER UPPER BOARD;S63-FH-Y	UY03A
BN96-12694A	ASSY PDP P-Y BUFFER LOWER BOARD;S63-FH-Y	UY02A
BN96-12695A	ASSY PDP P-LOGIC MAIN BOARD;S63-FH-YB05,	UL01A
BN96-12696A	ASSY PDP P-E-BUFFER BOARD;S63-FH-YB05,PL	UE01A
BN96-12697A	ASSY PDP P-F-BUFFER BOARD;S63-FH-YB05,PL	UF01A
BN96-12698A	ASSY PDP P-G-BUFFER BOARD;S63-FH-YB05,PL	UG02A
BN96-12833B	ASSY SPEAKER P;8OHM,4PIN,15W,L:670 R:107	SP01A
BN96-12991C	ASSY COVER P-FRONT;PC550 63,PMMA(CLEAR)+	F001A
BN96-13007B	ASSY COVER P-REAR;PC550 63,PCM,TO.45,BKN	R001A
BN96-13325D	ASSY CABLE P;PS63C590,FFC CABLE,0.5MM PI	FL06
BN96-13388D	ASSY BOARD P-TOUCH FUNCTION&IR;PN63C550,	FB21A
BN96-13496F	ASSY STAND P-BASE;PC550 58,GLASS,T8.0,2C	SB04A
BN96-13635A	ASSY STAND P-GUIDE NECK;58PC550,PC,CLEAR	M0029
BN96-14078A	ASSY HOLDER P-WALL;58PC550,ABS HB,BLK(BK	
BN96-15071A	ASSY PCB P-MAIN;BN94-03262Z,PN63C540G3FX	M0014



Power On Sequence:

1. STBY 5V (CN801, #2, 5v)
2. PS_ON (CN801, #1, 3.3v-0v)
3. VS_ON (CN802, #6, 0-3.3v)
4. Panel should illuminate briefly

⑧ CN4001 (Main Board) <-> Function			
Pin No.	Signal	Pin No.	Signal
1	IR	6	KEY INPUT1
2	AGND_IN	7	KEY INPUT2
3	A5V	8	AGND_IN
4	LED_STB	9	A5V
5	BUZZER	10	LED_CTRL

① CN801 (SMPS) <-> CN2001 (Main Board)	
Pin No.	Signal
1	PS_ON
2	STBY
3	GND
4	Vamp
5	GND
6	GND
7	D5.3V
8	D5.3V
9	GND_15V
10	15V
11	15V
12	D5.3V

③ CN804 (SMPS) <-> CN5601 (50" Y Board) CN5003 (58"/63" Y Board)	
Pin No.	Signal
1	Vs
2	Vs
3	GND
4	GND
5	Vg(D15V)
6	GND
7	GND
8	Va
9	Va

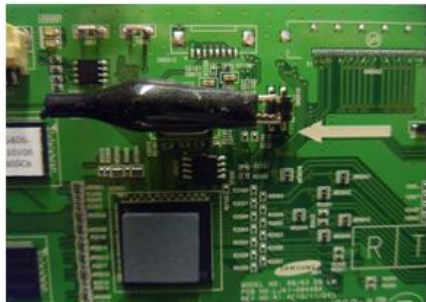
② CN802 (SMPS) <-> CN2000 (Logic Board)	
Pin No.	Signal
1	D5.3V
2	D5.3V
3	GND
4	GND
5	PS_ON
6	VS_ON

⑦ CN803 (SMPS) <-> CN4001 (58"/63" X Board)	
Pin No.	Signal
1	Vs
2	Vs
3	GND
4	GND
5	Vg(D15V)
6	GND
7	GND
8	Va
9	Va

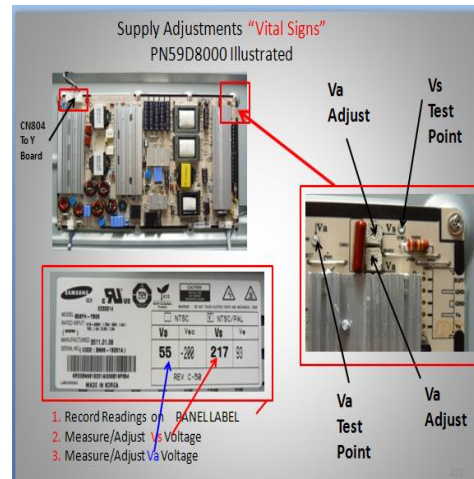
“Troubleshooting”

Activating Power & Logic Board Test Patterns without Main Board:

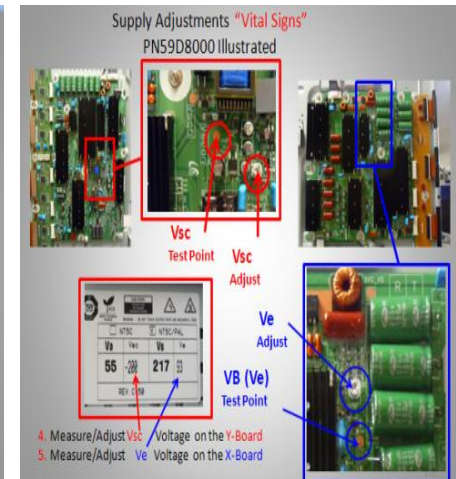
1. Remove Power Cord to Panel
2. Short Highest 2 Pin #s on Logic Board Test Jig (Can be 4 Pin or 6 Pin)



3. Remove Power Connector at Main Board (keeping connection to SMPS)
4. Short “Power On” Pin to Circuit Ground on Power Connector to SMPS.
5. Connect Power Cord to Panel



Sample



Power Supply Trouble Shooting Notes:

2010/2011 models

Will not be run with the “X” or “Y” main disconnected. The SMPS will shut down immediately. However if a meter is first connected to the test point when power is applied it will read the correct voltage briefly before shutting down. (You have enough time to check key voltages)

CAUTION: Do not reconnect any connectors to SMPS or Y/X Boards until power has been turned off long enough for Vs to drop below 10V or damage will occur to X or Y Boards.

SMPS Over Current Protection

If a short circuit occurs on either the VS or VA voltage lines, the SMPS stops operating, but should not fail. When the short circuit is removed from the source line, the Power Supply will operate normally again.

Many SMPS Supplies are replaced needlessly!

“VITAL SIGNS”

When troubleshooting, It's very important to first check **Vs, Va, Vsc & Ve**. If **Vs** is missing (0V), disconnect power and check for short. Use ohm meter to measure resistance while disconnecting Y-Board & X-Board supply feeds one at a time.

Turn Power On and Test SMPS with shorted connector removed for correct Vs voltage verification. (It may only come up briefly but to full level). Be careful not to reconnect power connectors until Vs falls below 10V.

If **Va** is low or missing, disconnect power connectors to Address Boards and Check to see if SMPS Supply is restored. (Note Va feed normally passes through the Y-Drive to the Address Boards (Logic Buffer Boards). If **Vsc** is low or missing and Vs is OK, the failure is with the **Y-Board** since the Y-Board generates the Vsc voltage from the supplied Vs.

If **Ve** is low or missing and Vs is OK, the failure is with the **X-Board** since the Ve is generated by the X-Board from the supplied Vs. (Please note: In some rare cases the Ve is generated by the Y-Board fed to the X-Board.)

Other SMPS Voltages:

Check Low Voltage feeds to the Main Board and other supplied Assemblies.

TROUBLESHOOTING VIDEO PROBLEMS

1. Verify Video Operation

- Customer Picture Test** (if available)
- “Display”** (If display is OK source is suspected)
- Substitute with known good Source
(**external DVD or Signal Generator**)

2. Use Test Patterns in Service Mode

- ENTERING SERVICE MODE -

Customer Remote

- Power off
- Mute, 182, Power

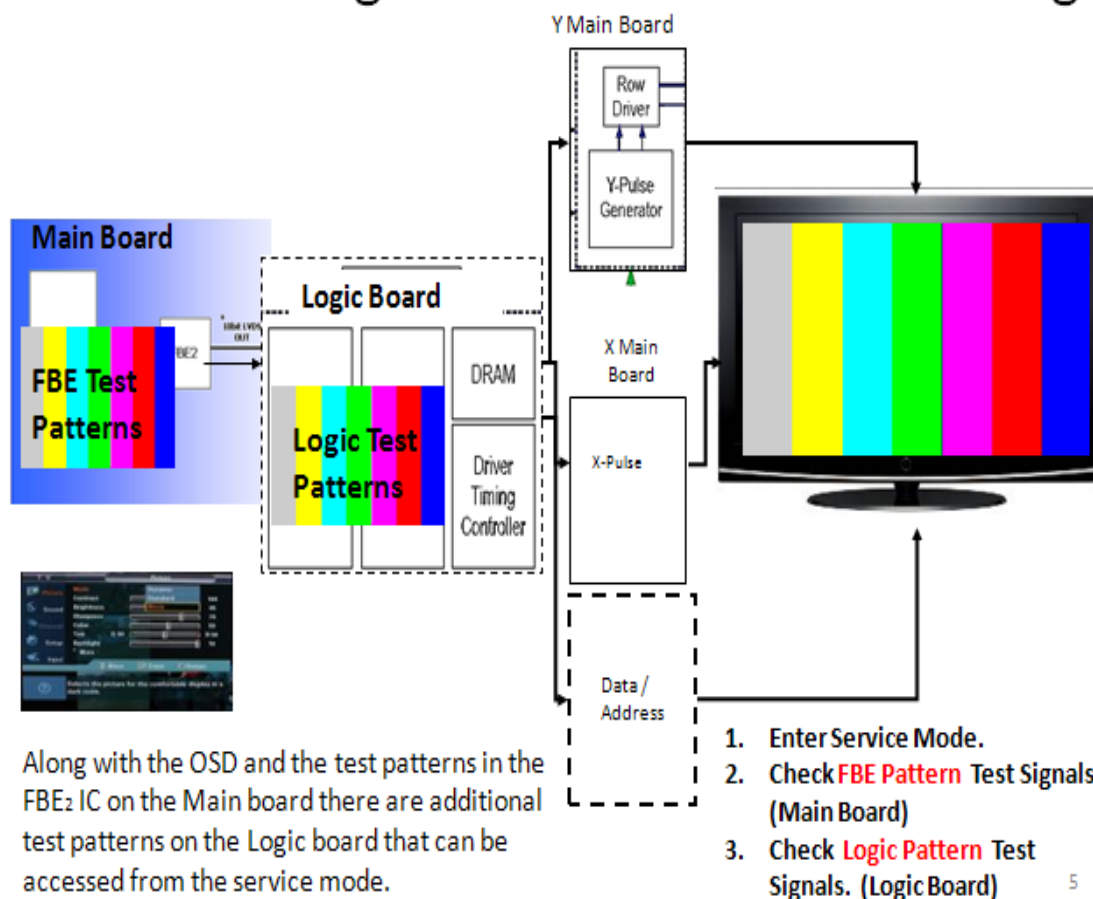
Service Remote

- Power On
- Info, Factory

3. Determine cause

- If Logic pattern is NG; Logic board, Logic buffers or Panel are suspect.
- If FBE patterns is NG and Logic is OK; Main or LVDS cable are suspect.
- If both are OK it is likely a source issue.

2010 PDP Signal Path for Troubleshooting



ALIGNMENTS:

1. Check/Adj. VS, VA, VE, & VSC according to Panel Label and Diffusion test. (see bulletins for any special notes before making changes)
2. Check/Set Option Bytes:
 - ENTER SERVICE MODE -
 - a) Customer Remote: Power off; Mute, 182, Power On
 - b) Service Remote: Power On; Info, Factory

Model Code	Side Label	Option									
		Type	Model	Tuner	Region	DDR	Light Effect	Audio AMP	Ch Table	Country	Front Color
PN63C540G3FXZA	NY01	63FArN1	PC540	DRX3900J	-	0	Off	-	-	USA	T-R-BLK
	NY02	63FArN1	PC540	DRX3900J	-	0	Off	-	-	USA	T-R-BLK

DIFFUSION TEST/ADJ. (cell miss-firing, older units):

- Allow the unit to warm up 15 to 20 minutes
- Access the Burn Protect Sig. Pattern in Cust. Menu.
- Adjust the Vs volts until screen errors are gone in both dark and bright areas.
- Adjust the Vs volts within +/- 10V on the panel label.

SPECIAL NOTES:

See bulletin "Red Dots" for correction/adjustments for this model.

